

IN THE CLAIMS:

Please cancel claims 24 and 25, without prejudice, and amend the following claim.

C1
Sub 31

23. (Amended) A method of producing antibodies to [a lymphadenopathy associated virus antigen] an antigen of human immunodeficiency virus type 1 (HIV-1), said method comprising:

(a) providing an antigen of HIV-1, wherein said antigen is the expression product of a host transformed with a vector containing a [DNA] nucleic acid fragment of plasmid λ -J19, and wherein said [DNA] nucleic acid fragment comprises the restriction [sites HindIII, and SacI, and a first BglII restriction site, from the 3' end to the 5' end, said method comprising expressing antigens encoded by said DNA fragment and raising antibodies against said antigens] site HindIII at about coordinate 9250, the restriction site SacI at about coordinate 9200, and the restriction site BglII at about coordinate 9150;

(b) raising antibodies against said antigen, and

(c) recovering said antibodies.

Please add the following claims.

C2
Sub 32

--32. A method of producing antibodies to an antigen of human immunodeficiency virus type 1 (HIV-1), said method comprising:

(a) providing an antigen of HIV-1, wherein said antigen is the expression product of a host transformed with a vector containing a nucleic acid fragment of plasmid λ -J19, and

wherein said nucleic acid fragment comprises the restriction site *Hind*III at about coordinate 9250, the restriction site *Sac*I at about coordinate 9200, the restriction site *Bgl*III at about coordinate 9150, the restriction site *Bgl*III at about coordinate 8750, and the restriction site *Kpn*I at about coordinate 8700,

(b) raising antibodies against said antigen, and

(c) recovering said antibodies.

33. A method of producing antibodies to an antigen of human immunodeficiency virus type 1 (HIV-1), said method comprising:

(a) providing an antigen of HIV-1, wherein said antigen is the expression product of a host transformed with a vector containing a nucleic acid fragment of plasmid λ -J19, and wherein said nucleic acid fragment comprises the restriction site *Hind*III at about coordinate 9250, the restriction site *Sac*I at about coordinate 9200, the restriction site *Bgl*III at about coordinate 9150, the restriction site *Bgl*III at about coordinate 8750, the restriction site *Kpn*I at about coordinate 8700, the restriction site *Xho*I at about coordinate 8600, the restriction site *Bam*HI at about coordinate 8150, the restriction site *Hind*III at about coordinate 7850, and the restriction site *Bgl*III at about coordinate 7600,

(b) raising antibodies against said antigen, and

(c) recovering said antibodies.--